

AMENDMENTS TO THE CLAIMS

This Listing of Claims will replace all prior versions and Listings of Claims in this application.

LISTING OF CLAIMS

Claim 1 (currently amended).

A door opener error-start prevention device 10, comprising:

a base 4;

a door opener 20, one end of which has a mounting seat 21 that is mounted on said base 4, and the other end of which accommodates a power unit 22 for outputting power;

an output shaft 24, a first end 24a of which forms, from said end, an axially central hole 241, and is mounted at center of an end gear 23 driven by said power unit 22, a second end 24b of which extends into said base, and is installed in said mounting seat 21 in a rotatable manner, and in which a pair of axial sliding slots 242 are formed in a manner that passes through said central hole 241;

a sprocket assembly 25 which is connected to said second end 24b of said output shaft 24 in a freely rotatable manner, one end of which comprises a sprocket 251 synchronously moving with a sprocket 51 on a rolling shaft 5 of a rolling door 1 through a chain 26, and the other end of which is integrally formed with a sleeve 252, a pair of V-shaped slots 253 being formed, in respect

to sliding slots 242 on said output shaft 24, in periphery of said sleeve 252, a sliding pin 27 being radially inserted into said sliding slots 242 of said output shaft 24, both ends of said sliding pin 27 protruding into said V-shaped slots of said sleeve 252;

a compression spring 28 which passes through and is installed in said central hole 241 of said output shaft 24, one end of which is mounted by means of ~~an~~ ~~a~~ fastener 29, and the other end of which abuts against said sliding pin 27;

a swaying plate 30 which is installed beside ~~of~~ said sliding pin 27, one end 30a of which is mounted on a mounting seat 21 of said door opener 20, and the other end 30b of which is a free end; and a switch device 31 which is installed beside said free end 30b of said swaying plate 30, in which when rotation of said door opener 20 is hindered, and said sliding pin 27 moves back toward a gradually larger opening, and compresses said swaying plate 30, then a switch device 31 is triggered to switch off an electrical power for said circuit for rising said rolling door, and supplies a reverse current, so as to make said door opener 20 rotate in a reverse direction, and then make door plates descend and then return back to its original position.

Claim 2 (original).

The door opener error-start prevention device 10 according to claim 1, wherein said slots 253 on said sleeve 252 of said sprocket assembly 25 comprises a small end 253a and a large end 253b.

Claim 3 (currently amended).

The door opener error-start prevention device 10 according to claim 1, wherein said large end 253b of said slots 253 forms a gradually larger opening in an opposite direction of said compression spring 28.

Claim 4 (original)

The door opener error-start prevention device 10 according to claim 3, wherein said compression spring 28 having an appropriate pressure is selected based on weight of said door plates and on a strength of said sliding pin 27.

Claim 5 (original)

The door opener error-start prevention device 10 according to claim 2, wherein a positioning bump 271 is formed in middle of said sliding pin 27 in a vertical direction manner.

Claim 6 (original)

The door opener error-start prevention device 10 according to claim 1, wherein said switch device 31 is a micro switch 31.

Claim 7 (original)

The door opener error-start prevention device 10 according to claim 1, wherein the pressure of the compression spring 28 is adjusted, in response to weight of said door plates or the sensitivity, through the fastener 29.